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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2009; month=6; day=12; hr=7; min=19; sec=29; ms=256;]

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Application No: 10082973 Version No: 4.0

Input Set:**Output Set:**

Started: 2009-06-04 17:28:19.196
Finished: 2009-06-04 17:28:21.284
Elapsed: 0 hr(s) 0 min(s) 2 sec(s) 88 ms
Total Warnings: 27
Total Errors: 0
No. of SeqIDs Defined: 73
Actual SeqID Count: 73

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 402	Undefined organism found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 402	Undefined organism found in <213> in SEQ ID (22)
W 213	Artificial or Unknown found in <213> in SEQ ID (37)
W 213	Artificial or Unknown found in <213> in SEQ ID (38)
W 213	Artificial or Unknown found in <213> in SEQ ID (39)
W 213	Artificial or Unknown found in <213> in SEQ ID (40)
W 213	Artificial or Unknown found in <213> in SEQ ID (41)
W 213	Artificial or Unknown found in <213> in SEQ ID (42)
W 213	Artificial or Unknown found in <213> in SEQ ID (43)
W 213	Artificial or Unknown found in <213> in SEQ ID (44)
W 213	Artificial or Unknown found in <213> in SEQ ID (45)
W 213	Artificial or Unknown found in <213> in SEQ ID (46)

Input Set:

Output Set:

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Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (47)
W 213	Artificial or Unknown found in <213> in SEQ ID (48) This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Norris, James S.
 Clawson, Gary A.
 Schmidt, Michael G.
 Hoel, Brian D.
 Pan, Wei-Hua
 Dolan, Joseph W.

<120> TISSUE-SPECIFIC AND TARGET RNA-SPECIFIC RIBOZYMES

<130> 14017-0004002

<140> 10082973

<141> 2009-06-04

<150> 09/338,942

<151> 1999-06-24

<150> 60/090,560

<151> 1998-06-24

<150> 60/096,502

<151> 1998-08-14

<160> 73

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 492

<212> DNA

<213> Artificial Sequence

<220>

<223> ARN promoter

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gatcggcggc gtcgggtgccg gcggccgggt ctccgcctcg ctcggcgggtg ccggtccgtg	180
cggccttggc gtccgcggcg gcgcgcgatg agggcggcac ctgggtgggtg atccagccac	240
tgaggggtcaa cattccagtc actccgggaa aaatggaatt ctccattgg atcggcccac	300
gcgtcgcgaa cttgagcccc cttttcgctcg ccccttgaca ggggtgcgaca ggtagtcgca	360
gttggtttgac gcaagtcact gattggaaac gccatcggcc tgtcagaaat ggtcgttgcc	420
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<210> 2

<211> 1113

<212> DNA

<213> Artificial Sequence

<220>

<223> PROC promoter

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ggtggcagggc cggcggagag gtgcagggtcc gaagcgccct gtttggcact gaaggcgagc      180
agctcggtaa tatccatggg actccccaat tacaagcaag caggtagaat gccgccaag      240
ccgctgtctc ggacaaggaa aacaccggat gagccagggt gcttccagga cagcgtggt      300
gtcctgcgcc agacgcggaa cctcgacact ggaacaggaa gatggccatc gaggccggcg      360
gtttcgaggg cgtcgagccg acgccgaccg cacttccata gggcgtaggt aatgtccacg      420
atagcagaga atattgcaaa ggttgccgcg cgcattcgtg aggcagcgca agctgcgggg      480
cgcgatccgg ccacggtcgg cctgctcgcc gtgagcaaga ccaagcccg cgcgcgggtg      540
cgcgaggcgc acgccgcccg ccttcgcgac ttggcgaaa actacctgca ggaggccctc      600
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aagatcgcg agcgctgtc ggagcaacgc ccggccgggc tgccgccct gaatgtctgc      780
ctgcaggta acgtcagcgg cgaagccagc aagtccggct gcgccccga ggacctgccg      840
gccctggccg aggcctgaa gcaactgcc aacctccgat tgcgtggcct gatggccatc      900
cccgaacca ccgccgaacg cgccgcgcaa cagccgcgt tcgcccgcct gcgcgaactg      960
ctgctggacc tgaaccttgg cctggacacc ctgtccatgg gcatgagcga cgacctcgag     1020
gcagccatcg gcgaaggtgc gacctgggtc cgcattcgtt ccgcctgtt cggcgcccg      1080
gactacggcg cgccggcttc ttgaatgaat ccc                                     1113

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<210> 3
<211> 66
<212> DNA
<213> Artificial Sequence

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<220>
<223> ARC promoter

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<210> 4
<211> 685
<212> DNA
<213> Artificial Sequence

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<220>
<223> UPCM2 cassette sequence

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acgatgacat tctgctgacc agattcacgg tcagcagaat gtcattcgct gttccaggat      180
ccggctgcta acaaagcccg aaaggaagct gagttggctg ctgccaccgc tgagcaataa      240
ctagcataac cccttggggc ctctaaacgg gtcttgaggg gttttttgct gaaaggagga      300
actatatccg gatatcccgc aagaggcccg gcagtaccgg cataaccaag cctatgccta      360
cagcatccag ggtgacgggt ccgaggatga cgatgagcgc attgttagat ttcatacacg      420
gtgcctgact gcgttagcaa tttaactgtg ataaactacc gcattaaagc ttatcgatga      480
taagctgtca aacatgagaa ttcggcgat acgccgaatt tcaagggctc gcgcaacgac      540
gacgatgagg taccacatcg tcgtcgttgc gactgatga ggccgtgagg ccgaaaccct      600
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<210> 5

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gataacaatt cacaagctta tcgataccgt cgacctcgag ctttggaacc ctgatgagtc 120
cgtgaggacg aaacgatgac attctgctga ccagattcac ggtcagcaga atgtcatcgt 180
cggttccagg atccggctgc taacaaagcc cgaaaggaag ctgagttggc tgctgccacc 240
gctgagcaat aactagcata accccttggg gcctctaaac gggctttgag gggttttttg 300
ctgaaaggag gaactatatc cggatatccc gcaagaggcc cggcagtacc ggcataacca 360
agcctatgcc tacagcatcc agggtgacgg tgccgaggat gacgatgagc gcattgttag 420
atttcataca cgggtgcctga ctgcgttagc aatttaactg tgataaacta ccgcattaaa 480
gcttatcgat gataagctgt caaacatgag aattcggcgt atacgccgaa tttcaagggt 540
ctgcgcaacg acgacgatga ggtaccacat cgtcgtcgtt gcgcactgat gagggcgtga 600
ggccgaaacc cttgacgcgt aaaaaaacc cgccccggcg gggttttttac gcgttcctat 660
gcggccgctc tag 673

<210> 6
<211> 14
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 6
agctcgagct caga 14

<210> 7
<211> 17
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 7
tcgacggatc tagatcc 17

<210> 8
<211> 56
<212> DNA
<213> Escherichia coli

<400> 8
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<210> 9
<211> 54
<212> DNA
<213> Escherichia coli

<400> 9
 agatctaaat tcgtttctga tgagtccgtg aggacgaaac accacaaaag atct 54

<210> 10
 <211> 54
 <212> DNA
 <213> Escherichia coli

<400> 10
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<210> 11
 <211> 55
 <212> DNA
 <213> Escherichia coli

<400> 11
 agatctaaac gatttcctga tgagtccgtg aggacgaaac atcaccaaacc caagg 55

<210> 12
 <211> 56
 <212> DNA
 <213> Escherichia coli

<400> 12
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<210> 13
 <211> 53
 <212> DNA
 <213> Streptomyces lividans

<400> 13
 agatctaaag tactcctgat gagtccgtga ggacgaaacc agcgaaacca agg 53

<210> 14
 <211> 55
 <212> DNA
 <213> Enterococcus faecalis

<400> 14
 agatctaaaa cttttgctga tgagtccgtg aggacgaaac gtgtataaac caagg 55

<210> 15
 <211> 54
 <212> DNA
 <213> Psudeomonas putida

<400> 15
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<210> 16
 <211> 54
 <212> DNA
 <213> Streptomyces coelicolor

<400> 16

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<210> 17	
<211> 56	
<212> DNA	
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<223> B2 consensus	
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<210> 19	
<211> 39	
<212> DNA	
<213> Mus musculus	
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ttcaaagact gatgagtccg tgaggacgaa acgaggatc	39
<210> 20	
<211> 34	
<212> DNA	
<213> Mus musculus	
<400> 20	
gtccatctga tgagtccgtg aggacgaaac cggc	34
<210> 21	
<211> 36	
<212> DNA	
<213> Hepatitis B virus	
<400> 21	
attagagctg atgagtccgt gaggacgaaa caaacg	36
<210> 22	
<211> 37	
<212> DNA	
<213> Human papillomavirus	
<400> 22	
gtcctgactg atgagtccgt gaggacgaaa cattgca	37
<210> 23	
<211> 44	
<212> DNA	
<213> Homo sapiens	

<400> 23	
tccgttgtct ctgatgagtc cgtgaggacg aaacatgaca ccga	44
<210> 24	
<211> 39	
<212> DNA	
<213> Homo sapiens	
<400> 24	
gcgaggagct gatgagtccg tgaggacgaa acatggtgt	39
<210> 25	
<211> 37	
<212> DNA	
<213> Mus musculus	
<400> 25	
aacttttctg atgagtccgt gaggacgaaa cataatg	37
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<212> DNA	
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tcgaagctgt ctgatgagtc cgtgaggacg aaaccgcgtt ga	42
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<213> Mus musculus	
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atcagggctct gatgagtccg tgaggacgaa aggtgcc	37
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<212> DNA	
<213> Rattus norvegicus	
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<211> 37	
<212> DNA	
<213> Homo sapiens	
<400> 29	
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<211> 36	
<212> DNA	
<213> Homo sapiens	
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<211> 36	
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<211> 36	
<212> DNA	
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gataaggctg atgagtccgt gaggacgaaa ctttcc	36
<210> 33	
<211> 36	
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<223> primer

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<210> 39
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<212> DNA
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<220>
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<210> 40
<211> 46
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<210> 41
<211> 41
<212> DNA
<213> Artificial Sequence

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<223> primer

<400> 41
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<210> 42
<211> 41
<212> DNA
<213> Artificial Sequence

<220>
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<400> 42

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<213> Artificial Sequence

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tgaa 64

<210> 44
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<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme construct

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cccta 65

<210> 45
<211> 65
<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme construct

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atctg 65

<210> 46
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> ribozyme construct

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gtgg 64

<210> 47
<211> 63
<212> DNA
<213> Artificial Sequence

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ttg 63

<210> 48
<211> 64
<212> DNA
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agauccgucc ugaugagucc gugaggacga aacgggaucug cagcggccgc 170

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<222> (1)...(249)
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cacggucagc agaaugucau cgucgguucc aggaucnnn nncugauga guccgugagg 120
acgaaannnn nnnnnggaau uccaaggguc ugcgcaacga cgacgaugag guaccacauc 180
gucgucguug cgcacugaug aggccgugag gccgaaaccc uugacgcguu ccuaugcggc 240
cgcucuaga 249

<210> 51
<211> 364

<212> DNA
<213> Artificial Sequence

<220>
<223> pSnip ribozyme cassette

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ctcagatctc tcgagcaatt gatccgtcga cggatgtaga tccgtcctga tgagtccgtg 120
aggacgaaac ggatctgcag cggatatcca gctttggaac cctgatgagt ccgtgaggac 180
gaaacgatga cattctgctg accagattca cggtcagcag aatgtcatcg tcggttccag 240
gatccttgcc tgaattccaa gggctctgcgc aacgacgacg atgaggtacc acatcgtcgt 300
cgttgcgcac tgatgaggcc gtgaggccga aacccttgac gcgttctctat gcggccgctc 360
taga 364

<210> 52
<211> 685
<212> DNA
<213> Artificial Sequence

<220>
<223> modified pChop cassette

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aagcttatacg ataccgtcga cctcgaagct ttggaaccct gatgagtccg tgaggacgaa 120
acgatgacat tctgctgacc agattcacgg tcagcagaat gtcatcgtcg gttccaggat 180
ccggctgcta acaaagcccg aaaggaagct gagttggctg ctgccaccgc tgagcaataa 240
ctagcataac cccttggggc ctctaaacgg gtcttgaggg gttttttgct gaaaggagga 300
actatatccg gatatcccg aagaggcccg gcagtaccgg cataaccaag cctatgccta 360
cagcatccag ggtgacggtg ccgaggatga cgatgagcgc attgttagat ttcatacacg 420
gtgcctgact gcgttagcaa tttaactgtg ataaactacc gcattaaagc ttatcgatga 480
taagctgtca aacatgagaa ttcggcgtat acgccgaatt tcaaggggtct gcgcaacgac 540
gacgatgagg taccacatcg tcgtcgttgc gcaactgatga ggccgtgagg ccgaaaccct 600
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<220>
<223> pChop ribozyme cassette

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cacggucagc agaaugucau cgucgguucc aggauccuug ccugaauucc aagggucugc 120
gcaacgacga cgaugaggua ccacaucguc gucguugcgc acugaugagg ccgugaggcc 180
gaaacccuug acgcguuccu augcggccgc ucuaga 216

<210> 54
<211> 54
<212> DNA
<213> Escherichia coli

<400> 54
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<210> 55
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<212> DNA
<213> Escherichia coli

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<210> 64
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<210> 65
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<400> 65
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<210> 66
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 <212> DNA
 <213> Streptomyces lividans

<400> 66
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<210> 67
 <211> 51
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 <213> Streptomyces lividans

<400> 67
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<210> 68
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 <213> Enterococcus faecalis

<400> 68
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<210> 69
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<213> Enterococcus faecalis

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<213> Pseudomonas putida

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<212> DNA
<213> Pseudomonas putida

<400> 71
agatctaaac aggttcctga tgagtcctg aggacgaaac aatgtaaacc aagg 54

<210> 72
<211> 54
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